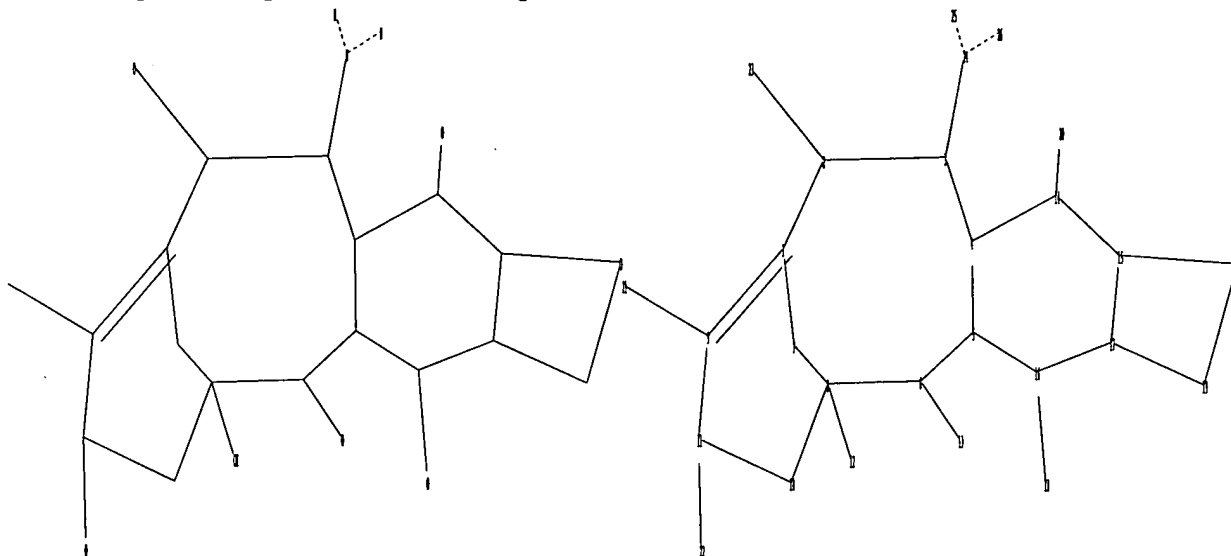


CAS

10/644,416

=&gt;

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chain nodes :

12 13 18 20 21 22 23 24 25 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 19 27

chain bonds :

2-23 3-24 6-13 8-12 9-21 11-22 14-20 16-18 24-25 24-26

ring bonds :

1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15  
15-17 15-27 16-17 17-19 19-27

exact/norm bonds :

1-2 1-7 1-9 2-3 2-23 3-4 3-24 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10  
8-12 9-11 10-11 11-22 14-15 14-20 15-17 15-27 16-17 16-18 17-19 19-27  
24-25 24-26

exact bonds :

9-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom  
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:Atom

L1 STRUCTURE UPLOADED

=&gt; s l1 ful

FULL SEARCH INITIATED 13:19:23 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 21 TO ITERATE

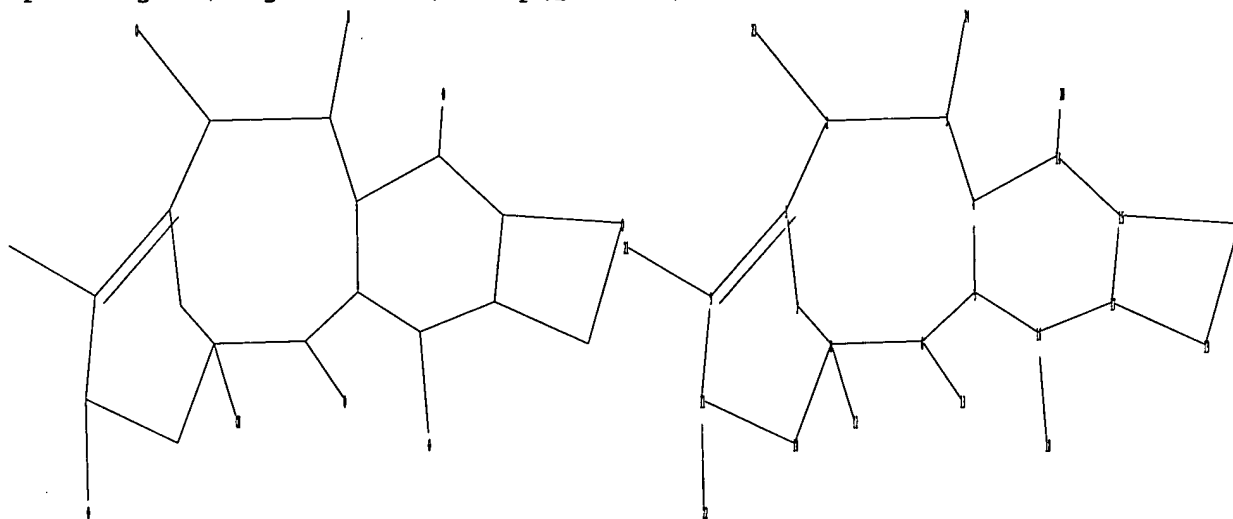
100.0% PROCESSED 21 ITERATIONS  
 SEARCH TIME: 00.00.01

0 ANSWERS

L2 0 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\rkc416b.str



chain nodes :

12 13 18 20 21 22 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 19 25

chain bonds :

2-23 3-24 6-13 8-12 9-21 11-22 14-20 16-18

ring bonds :

1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15

15-17 15-25 16-17 17-19 19-25

exact/norm bonds :

1-2 1-7 1-9 2-3 2-23 3-4 3-24 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10

8-12 9-11 10-11 11-22 14-15 14-20 15-17 15-25 16-17 16-18 17-19 19-25

exact bonds :

9-21

Connectivity :

24:3 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom

20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:Atom

L3 STRUCTURE UPLOADED

=> s 13 ful

FULL SEARCH INITIATED 13:22:31 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 519 TO ITERATE

100.0% PROCESSED 519 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L4 0 SEA SSS FUL L3

=>

=>

Executing the logoff script....

=> LOG H

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	324.81	325.02

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 13:22:54 ON 06 SEP 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptaul29rc

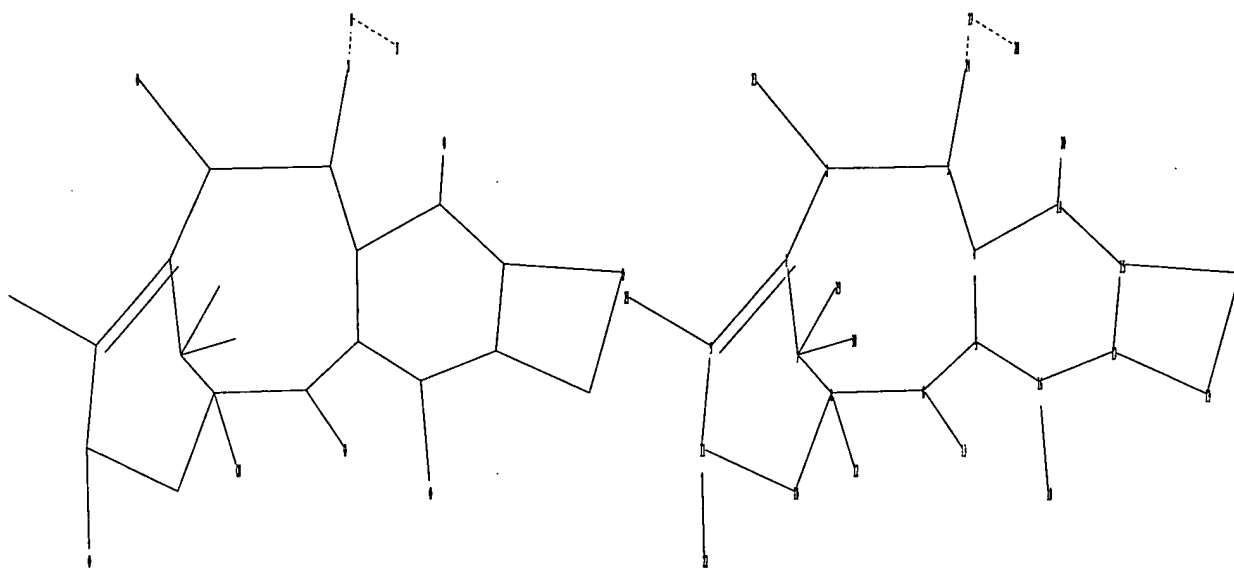
PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'REGISTRY' AT 14:59:44 ON 06 SEP 2005  
FILE 'REGISTRY' ENTERED AT 14:59:44 ON 06 SEP 2005  
COPYRIGHT (C) 2005 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.98	11.19

=>

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```

chain nodes :
12 13 18 20 21 22 23 24 27 28 29 30
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 19 25
chain bonds :
2-23 3-24 6-13 7-29 7-30 8-12 9-21 11-22 14-20 16-18 24-27 27-28
ring bonds :
1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15
15-17 15-25 16-17 17-19 19-25
exact/norm bonds :
1-2 1-7 1-9 2-3 2-23 3-4 3-24 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10
8-12 9-11 10-11 11-22 14-15 14-20 15-17 15-25 16-17 16-18 17-19 19-25
24-27 27-28
exact bonds :
7-29 7-30 9-21

```

```

Connectivity :
24:3 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:Atom 27:CLASS 28:CLASS
29:CLASS 30:CLASS

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L2 STRUCTURE UPLOADED

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=> s 12 ful
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FULL SCREEN SEARCH COMPLETED - 61 TO ITERATE

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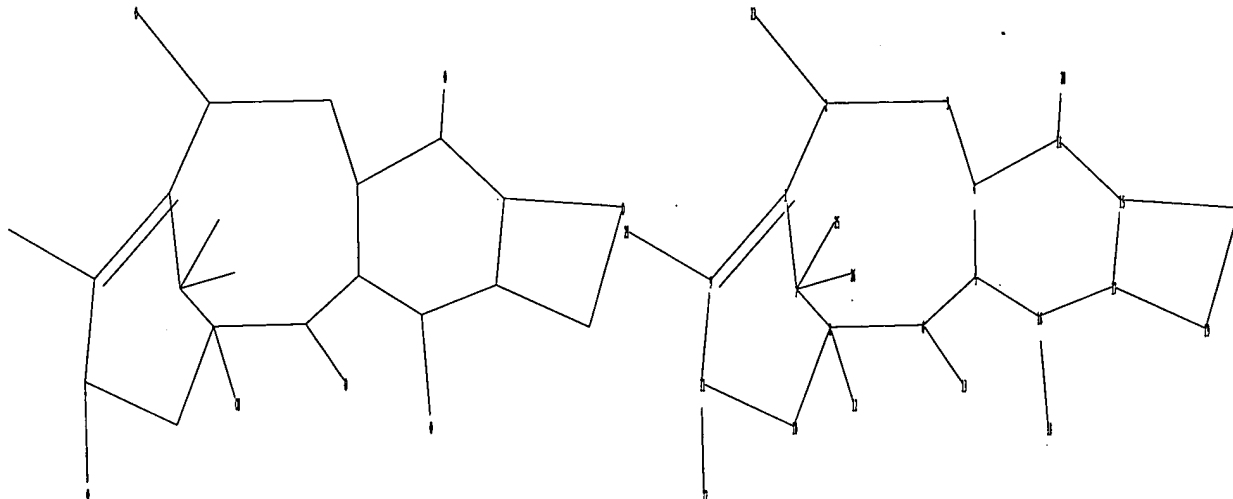
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SEARCH TIME: 00.00.01

0 ANSWERS

L3                    0 SEA SSS FUL L2

=>

Uploading C:\Program Files\Stnexp\Queries\rkc416g.str



chain nodes :

12 13 18 20 21 22 23 25 26

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 19 24

chain bonds :

2-23 6-13 7-25 7-26 8-12 9-21 11-22 14-20 16-18

ring bonds :

1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15  
15-17 15-24 16-17 17-19 19-24

exact/norm bonds :

1-2 1-7 1-9 2-3 2-23 3-4 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10 8-12  
9-11 10-11 11-22 14-15 14-20 15-17 15-24 16-17 16-18 17-19 19-24

exact bonds :

7-25 7-26 9-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom  
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:Atom 25:CLASS 26:CLASS

L4                    STRUCTURE UPLOADED

=> s 14 ful

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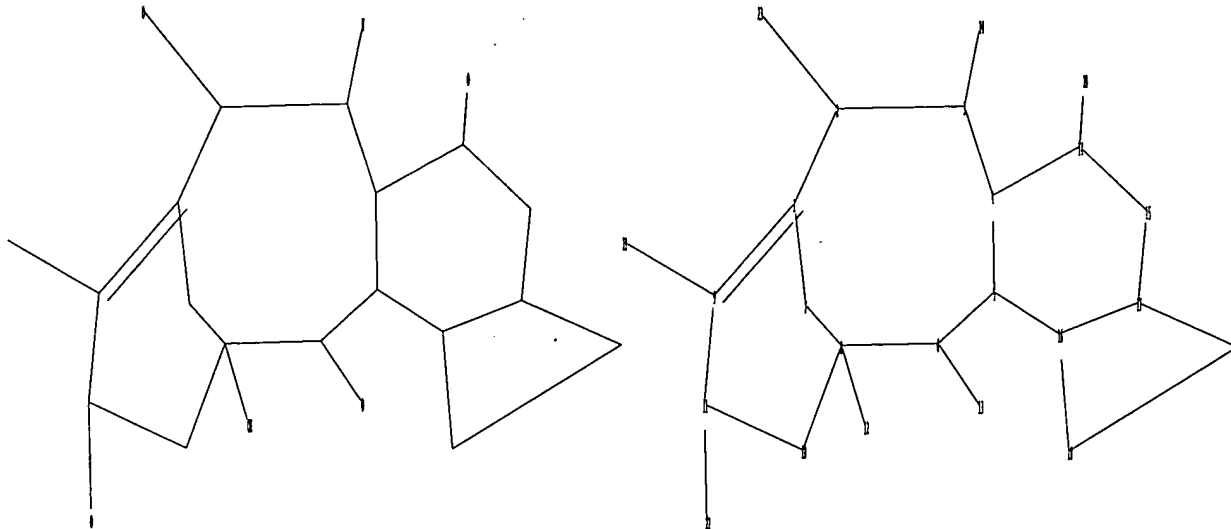
100.0% PROCESSED 12258 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L5 0 SEA SSS FUL L4

=>

Uploading C:\Program Files\Stnexp\Queries\rkc416h.str



chain nodes :

12 13 20 21 22 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19

chain bonds :

2-23 3-24 6-13 8-12 9-21 11-22 14-20

ring bonds :

1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15  
15-17 16-17 16-18 17-19 18-19

exact/norm bonds :

1-2 1-7 1-9 2-3 2-23 3-4 3-24 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10  
8-12 9-11 10-11 11-22 14-15 14-20 15-17 16-17 16-18 17-19 18-19

exact bonds :

9-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom  
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS

L6 STRUCTURE UPLOADED

=> s 16 ful

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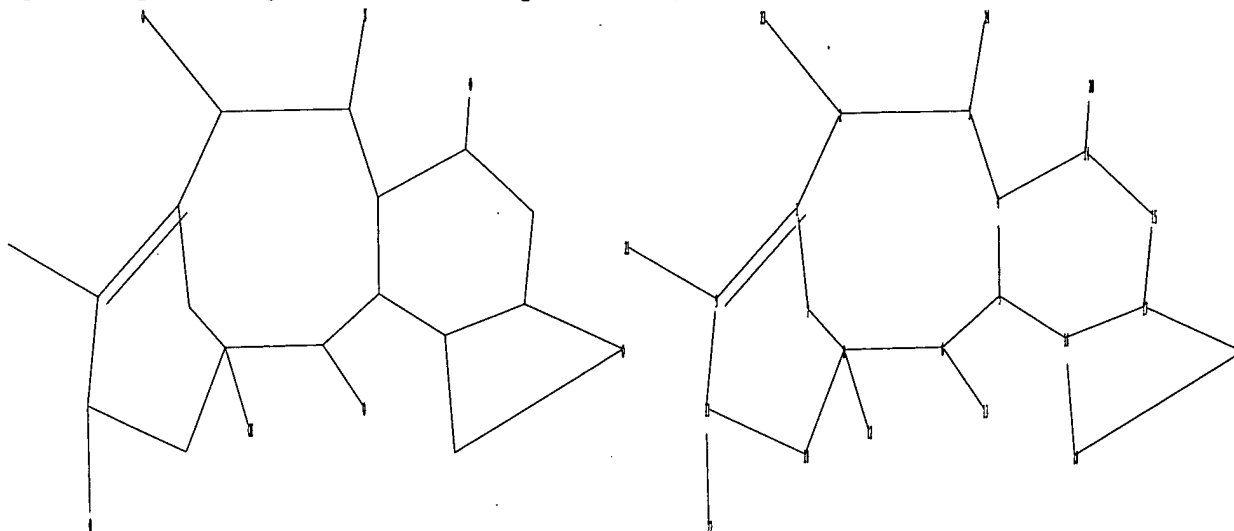
100.0% PROCESSED 633 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L7 0 SEA SSS FUL L6

=>

Uploading C:\Program Files\Stnexp\Queries\rkc416i.str



chain nodes :

12 13 20 21 22 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19

chain bonds :

2-23 3-24 6-13 8-12 9-21 11-22 14-20

ring bonds :

1-2 1-7 1-9 2-3 3-4 4-5 4-14 5-6 5-16 6-8 7-8 8-10 9-11 10-11 14-15  
15-17 16-17 16-18 17-19 18-19

exact/norm bonds :

1-2 1-7 1-9 2-3 2-23 3-4 3-24 4-5 4-14 5-6 5-16 6-8 6-13 7-8 8-10  
8-12 9-11 10-11 11-22 14-15 14-20 15-17 16-17 16-18 17-19 18-19

exact bonds :

9-21

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:CLASS 13:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom  
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS

L8 STRUCTURE UPLOADED

=> s l8 ful

FULL SEARCH INITIATED 15:05:40 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 207 TO ITERATE

100.0% PROCESSED 207 ITERATIONS  
SEARCH TIME: 00.00.01

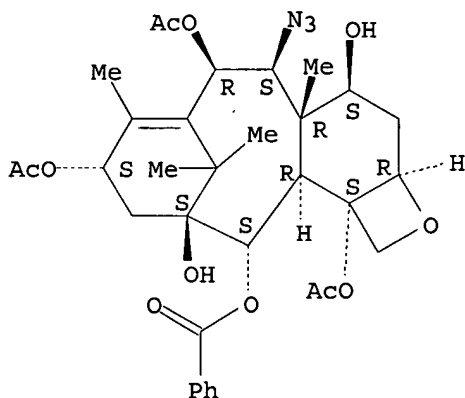
2 ANSWERS

L9 2 SEA SSS FUL L8

=> d 1-2

L9 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 851430-16-5 REGISTRY  
ED Entered STN: 01 Jun 2005  
CN 7,11-Methano-1H-cyclodeca[3,4]benz[1,2-b]oxete-4,6,9,11,12,12b-hexol,  
5-azido-2a,3,4,4a,5,6,12,12a-octahydro-4a,8,13,13-tetramethyl-,  
6,9,12b-triacetate 12-benzoate, (2aR,4S,4aR,5S,6R,9S,11S,12S,12aR,12bS) -  
(9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C33 H41 N3 O11  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

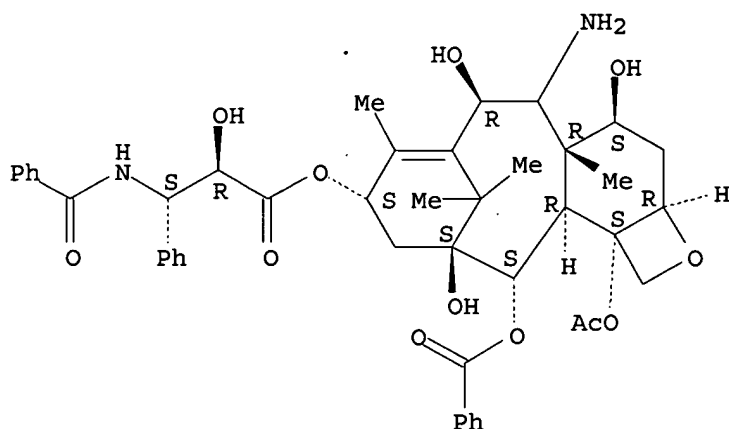


1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L9 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 502437-28-7 REGISTRY  
ED Entered STN: 09 Apr 2003  
CN Benzenepropanoic acid,  $\beta$ -(benzoylamino)- $\alpha$ -hydroxy-,  
(2aR,4S,4aR,6R,9S,11S,12S,12aR,12bS) -12b-(acetyloxy) -5-amino-12-  
(benzoyloxy) -2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,6,11-  
trihydroxy-4a,8,13,13-tetramethyl-7,11-methano-1H-cyclodeca[3,4]benz[1,2-  
b]oxet-9-yl ester, ( $\alpha$ R, $\beta$ S) - (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C45 H52 N2 O12  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.





1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
662.99	663.20

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:06:05 ON 06 SEP 2005  
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FILE COVERS 1907 - 6 Sep 2005 VOL 143 ISS 11  
FILE LAST UPDATED: 5 Sep 2005 (20050905/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L10 2 L9

=> d 1-2 fbib abs fhitr

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 2005:409269 CAPLUS  
DN 142:463899  
TI Semi-synthesis of taxane intermediates from 9-dihydro-13-acetylbaccatin

III  
 IN Naidu, Ragina  
 PA Phytogen Life Sciences Inc., Can.  
 SO U.S. Pat. Appl. Publ., 56 pp.  
 CODEN: USXXCO

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005101789	A1	20050512	US 2003-695416	20031027
	WO 2005044811	A2	20050519	WO 2004-US35583	20041027
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	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				US 2003-695416	A 20031027
OS	MARPAT 142:463899				
GI					

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

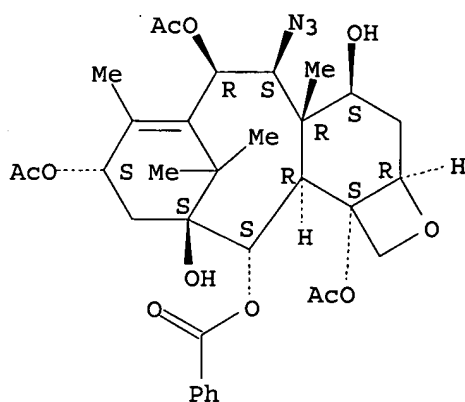
AB A method is provided for the semi-synthesis of taxane intermediates useful in the preparation of paclitaxel (I; R = C<sub>6</sub>H<sub>5</sub>, R' = Ac) and docetaxel (I; R = Boc, R' = H) from 9-dihydro-13-acetylbaccatin III (II). The preparation of a suitably protected baccatin III backbone, e.g. III [R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub> = H, hydroxyl protective group {e.g., CHO, Ac, COCHCl<sub>2</sub>, COEt, COCHMe<sub>2</sub>, COCMe<sub>3</sub>, SiMe<sub>3</sub>, SiEt<sub>3</sub>, Si(CHMe<sub>2</sub>)<sub>3</sub>, SiMe<sub>2</sub>CHMe<sub>2</sub>, SiEt<sub>2</sub>CHMe<sub>2</sub>, SiMe<sub>2</sub>CMe<sub>3</sub>, SiPh<sub>2</sub>Me, SiPh<sub>2</sub>CMe<sub>3</sub>, Si(CH<sub>2</sub>Ph)<sub>3</sub>, SiPh<sub>3</sub>, CO<sub>2</sub>CH<sub>2</sub>CCl<sub>3</sub>, CH<sub>2</sub>Ph, CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>-4, CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OMe-4, C<sub>6</sub>H<sub>5</sub>, Boc, Cbz, CH<sub>2</sub>OMe, CH<sub>2</sub>CH<sub>2</sub>OMe, CH(OEt)Me, C<sub>6</sub>H<sub>4</sub>OMe-4, THP, tetrahydrofuranyl, alkylsulfonyl, arylsulfonyl}; R<sub>3</sub> = β-N<sub>3</sub>, α-OH, β-Br, :O] from II, and the insertion of the phenylisoserine side chain onto the protected baccatin III from III to form the taxane derivs. and I is disclosed.

IT 851430-16-5DP, C(7)-protected  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and oxidation of; semi-synthesis of taxane intermediates from 9-dihydro-13-acetylbaccatin III)

RN 851430-16-5 CAPLUS

CN 7,11-Methano-1H-cyclodeca[3,4]benz[1,2-b]oxete-4,6,9,11,12,12b-hexol, 5-azido-2a,3,4,4a,5,6,12,12a-octahydro-4a,8,13,13-tetramethyl-, 6,9,12b-triacetate 12-benzoate, (2aR,4S,4aR,5S,6R,9S,11S,12S,12aR,12bS) - (9CI) (CA INDEX NAME)

Absolute stereochemistry..



L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:222324 CAPLUS  
 DN 138:260444  
 TI Manufacture of polyglutamate-therapeutic agent conjugates  
 IN Kumar, Anil; Klein, J. Peter; Bhatt, Rama; Vawter, Edward  
 PA Cell Therapeutics, Inc., USA  
 SO U.S. Pat. Appl. Publ., 13 pp., Cont.-in-part of U.S. Ser. No. 686,627.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003054977	A1	20030320	US 2002-198187	20020718
			US 1999-159135P	P 19991012
			US 2000-686627	A2 20001012
EP 1466627	A1	20041013	EP 2004-13703	20001012
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			EP 2000-972079	A3 20001012
US 2002077279	A1	20020620	US 2001-971657	20011009
			US 1999-159135P	P 19991012
			US 2000-686627	A3 20001012
US 2003224971	A1	20031204	US 2003-404152	20030402
			US 1999-159135P	P 19991012
			US 2000-686627	A1 20001012

## PATENT FAMILY INFORMATION:

FAN 2001:283821

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001026693	A2	20010419	WO 2000-US28109	20001012
WO 2001026693	A3	20011227		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

CA 2387611	AA	20010419	US 1999-159135P	P	19991012
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			WO 2000-US28109	W	20001012
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NZ 529789	A	20031219	NZ 2003-529789		20031126
			US 1999-159135P	P	19991012

AB An improved process for preparing a conjugate of poly(glutamic acid) and a therapeutic agent is described. The process comprises (a) providing the protonated form of a poly(glutamic acid) polymer and a therapeutic agent, (b) covalently linking the therapeutic agent to poly(glutamic acid) in an inert organic solvent to form a polyglutamic acid-therapeutic agent conjugate, (c) precipitating the conjugate from solution by addition of an excess volume of aqueous salt solution, and (d) collecting the conjugate as a protonated solid.

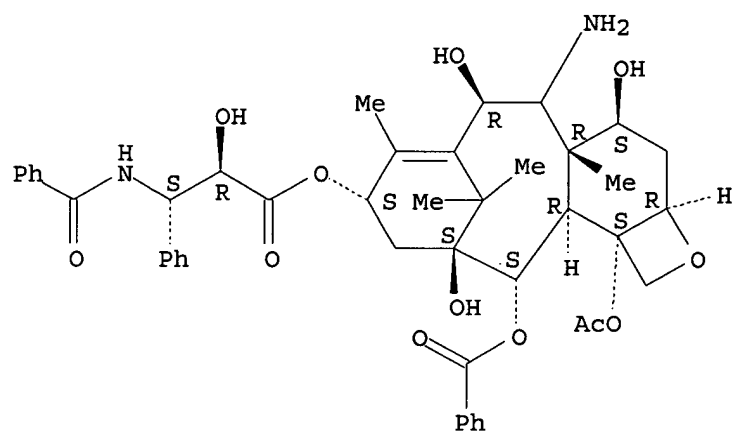
conjugates for clin. development and pharmaceutical use, and polyglutamic acid-therapeutic agent conjugates prepared by these processes. For example, poly(L-glutamic acid)-paclitaxel conjugate was prepared and found to be active in mice implanted s.c. with Lewis lung carcinoma cells.

IT 502437-28-7P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of polyglutamate-antitumor drug conjugates)

RN 502437-28-7 CAPLUS

CN Benzenepropanoic acid,  $\beta$ -(benzoylamino)- $\alpha$ -hydroxy-, (2aR,4S,4aR,6R,9S,11S,12S,12aR,12bS)-12b-(acetyloxy)-5-amino-12-(benzoyloxy)-2a,3,4,4a,5,6,9,10,11,12,12a,12b-dodecahydro-4,6,11-trihydroxy-4a,8,13,13-tetramethyl-7,11-methano-1H-cyclodeca[3,4]benz[1,2-b]oxet-9-yl ester, ( $\alpha$ R, $\beta$ S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=&gt;

---Logging off of STN---

=&gt;

Executing the logoff script...

=&gt; LOG Y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

18.23

681.43

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-1.46

-1.46

STN INTERNATIONAL LOGOFF AT 15:08:16 ON 06 SEP 2005